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This document constitutes the final report for Grant NSG-7548 entitled *Studies in Martian Geology*. This investigation focused on a study of various aspects of Mars geology and of the processes involved in the evolution of its surface. Emphasis was on volcanic and aeolian surface features. In addition, geological mapping was completed for the eastern hemisphere as part of a joint program with the Astrogeology Branch of the U.S. Geological Survey for global mapping of Mars.

Appended herewith are the abstract pages from papers wholly or partly supported by this grant. The reader is referred to these reports for in-depth results.

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